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(71) Applicant and

(72) Inventor: MILLER, Balthasar [CH/CH]; Heideggweg 6,
CH-5000 Aarau (CH).

(74) Agents: HASLER, Erich et al.; Riederer Hasler & Partner
Patentanwälte AG, Elestastrasse 8, CH-7310 Bad Ragaz
(CH).

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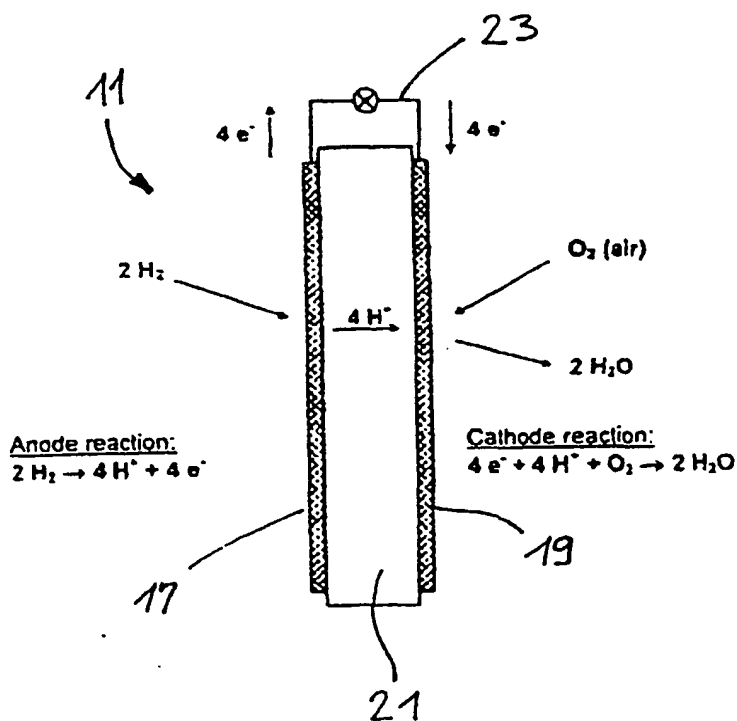
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(54) Title: PROCESS TO MANUFACTURE AN ION-PERMEABLE AND ELECTRICALLY CONDUCTING FLAT MATE-
RIAL, THE MATERIAL OBTAINED ACCORDING TO THE PROCESS, AND FUEL CELLS



(57) Abstract: A fibrous, flat and ion-permeable material made of synthetic fibers, in particular of synthetically spun fibers such as acrylic fibers or aramid fibers, is processed into staple fibers of a specific length and then fibrillated. In a wet-laid inclined machine (paper machine), the fibrillated fibers are formed into a continuous web and then the web or portions of it are subjected to a temperature treatment to make the web electrically conducting by carbonizing/graphitizing the web through heating.

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